

Appl. No. 10/707,453
Amdt. Dated August 16, 2005
Reply to Office action of May 18, 2005

Amendments to the Claims:

This listing of claims will replace all prior version, and listings, of claims in the application:

Listing of Claims:

5 Claim 1 (currently amended): A backlight module comprising:

an assembly of a rear substrate and a front substrate, a hermetic discharge gap being formed there between and mounted with power electrodes;

a discharge gas filled in the discharge gap, the discharge gas being discharged by the power electrodes; and

10 a plurality of fluorescent layers of different color emissions disposed on a surface of the assembly of the rear substrate and front substrate;

a light-shielding layer disposed under the two adjacent fluorescent layers of different color emissions; and

an opening disposed under each fluorescent layer.

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Claim 2 (original): The backlight module of claim 1, wherein the fluorescent layers of different color emissions are disposed on an inner surface of the assembly of the rear substrate and the front substrate inside the discharge gap.

20 Claim 3 (original): The backlight module of claim 1, wherein the fluorescent layers of different color emissions are disposed on an outer surface of the front substrate outside

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the discharge gap.

Claim 4 (cancelled)

5 Claim 5 (currently amended): The backlight module of claim [[4]] 1, wherein the light-shielding layer is a first reflective layer.

Claim 6 (currently amended): The backlight module of claim [[4]] 1, wherein the light-shielding layer is a black matrix.

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Claim 7 (currently amended): The backlight module of claim [[1]] 5, further comprising a second reflective layer disposed on an inner surface of the assembly of the rear substrate and the front substrate inside the discharge gap.

15 Claim 8 (original): The backlight module of claim 1, wherein the fluorescent layers of different color emissions are arranged in a delta shape, in a mosaic shape, in a first strip shape, or in a second strip shape.

20 Claim 9 (original): The backlight module of claim 1, wherein the rear substrate and the front substrate are made of a glass material.

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Claim 10 (currently amended): A liquid crystal display comprising:

a liquid crystal panel, the liquid crystal panel comprising:

a first substrate;

5 a second substrate parallel with and spaced apart from the first substrate; and

a liquid crystal layer disposed between the first substrate and the second substrate;
and

a backlight module, operable to illuminate the liquid crystal panel for displaying
color images, and the backlight module including a plurality of fluorescent layers
10 configured to emit light of different colors to the liquid crystal panel;

a light-shielding layer disposed under the two adjacent fluorescent layers of different
color emissions; and

an opening disposed under each fluorescent layer.

15 Claim 11 (original): The liquid crystal display of claim 10, wherein the backlight
module further comprising:

an assembly of a third substrate and a fourth substrate above the third substrate, a
hermetic discharge gap being formed there between and mounted with power electrodes;

a discharge gas filled in the discharge gap, and the discharge gas being
20 discharged by the power electrodes; and

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a plurality of fluorescent layers of different color emissions being disposed on a surface of the assembly of the third substrate and the fourth substrate.

5 Claim 12 (original): The liquid crystal display of claim 11, wherein the fluorescent layers of different color emissions are disposed on an inner surface of the assembly of the third substrate and the fourth substrate inside the discharge gap.

10 Claim 13 (original): The liquid crystal display of claim 11, wherein the fluorescent layers of different color emissions are disposed on an outer surface of the fourth substrate outside the discharge gap.

Claim 14 (cancelled)

15 Claim 15 (currently amended): The liquid crystal display of claim [[14]] 10, wherein the light-shielding layer is a first reflective layer.

Claim 16 (currently amended): The liquid crystal display of claim [[14]] 10, wherein the light-shielding layer is a black matrix.

20 Claim 17 (currently amended): The liquid crystal display of claim [[11]] 15, further comprising a second reflective layer disposed on an inner surface of the assembly of the

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third substrate and the fourth substrate inside the discharge gap.

Claim 18 (original): The liquid crystal display of claim 11, wherein the fluorescent layers of different color emissions are arranged in a delta shape, in a mosaic shape, in a first strip shape, or in a second strip shape.

Claim 19 (original): The liquid crystal display of claim 11, wherein the fourth substrates is permeable to ultraviolet rays.

10 Claim 20 (new): A backlight module comprising:

an assembly of a rear substrate and a front substrate, a hermetic discharge gap being formed there between and mounted with power electrodes;

a discharge gas filled in the discharge gap, the discharge gas being discharged by a luminous body; and

15 a plurality of fluorescent layers of different color emissions disposed on a surface of the assembly of the rear substrate and front substrate.

Claim 21 (new): The backlight module of claim 20, wherein the luminous body comprises a cold cathode flat fluorescence lamp (CCFFL) and a light emitting diode (LED).

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Claim 22 (new): The backlight module of claim 20, wherein the fluorescent layers of different color emissions are disposed on an inner surface of the assembly of the rear substrate and the front substrate inside the discharge gap.

5 Claim 23 (new): The backlight module of claim 20, wherein the fluorescent layers of different color emissions are disposed on an outer surface of the front substrate outside the discharge gap.

10 Claim 24 (new): The backlight module of claim 20, further comprising a light-shielding layer disposed between the two adjacent fluorescent layers of different color emissions.

15 Claim 25 (new): The backlight module of claim 24, wherein the light-shielding layer is a first reflective layer.

 Claim 26 (new): The backlight module of claim 25, wherein the light-shielding layer is a black matrix.

20 Claim 27 (new): The backlight module of claim 25, further comprising a second reflective layer disposed on an inner surface of the assembly of the rear substrate and the front substrate inside the discharge gap.

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Claim 28 (new): The backlight module of claim 20, wherein the fluorescent layers of different color emissions are arranged in a delta shape, in a mosaic shape, in a first strip shape, or in a second strip shape.

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Claim 29 (new): The backlight module of claim 20, wherein the rear substrate and the front substrate are made of a glass material.